









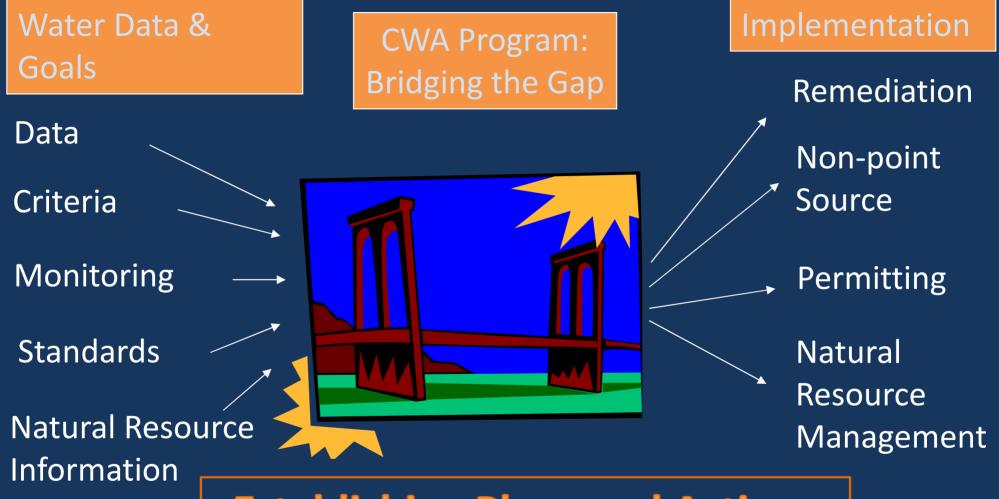


# Using the RPS Tool and Enhanced Watershed Protection and Restoration Efforts

May 4, 2016 Chris Sullivan CT DEEP TMDL Group NWQMC Tampa



### Integrated Water Resources Management



Establishing Plans and Actions to Restore and Protect Water Resources

# New Approach

- New opportunity from EPA
- States select water quality focus
- More flexible approach
- Emphasis on results for restoration and protection
- Coordinate program efforts and increase returns

Improve collaboration and integration across all activities and programs to better realize water quality goals



### 6 Key Elements of New Approach





# Recovery Potential Screening (RPS)

# EPA Tool to help States compare restorability across all watersheds

- Origins in Impaired Waters program
- Broader audiences now (fisheries, healthy watersheds)
- Systematic but very flexible approach
- Science-based, indicator-driven (GIS and field data sources)



# CT Water Quality Concerns



General Watershed Health



Stormwater



**Nutrients** 



Bacteria



Saltwater Estuaries



### Recovery Potential Screening - Basic Concept

Ecological Category

**Indicator 1** 

**Indicator 2** 

Indicator 3

Indicator 4

Indicator 5....

**Stressor Category** 

Indicator 1

**Indicator 2** 

**Indicator 3** 

Indicator 4

Indicator 5....

Social Category

**Indicator 1** 

**Indicator 2** 

Indicator 3

Indicator 4

Indicator 5....

**Ecological Index** 

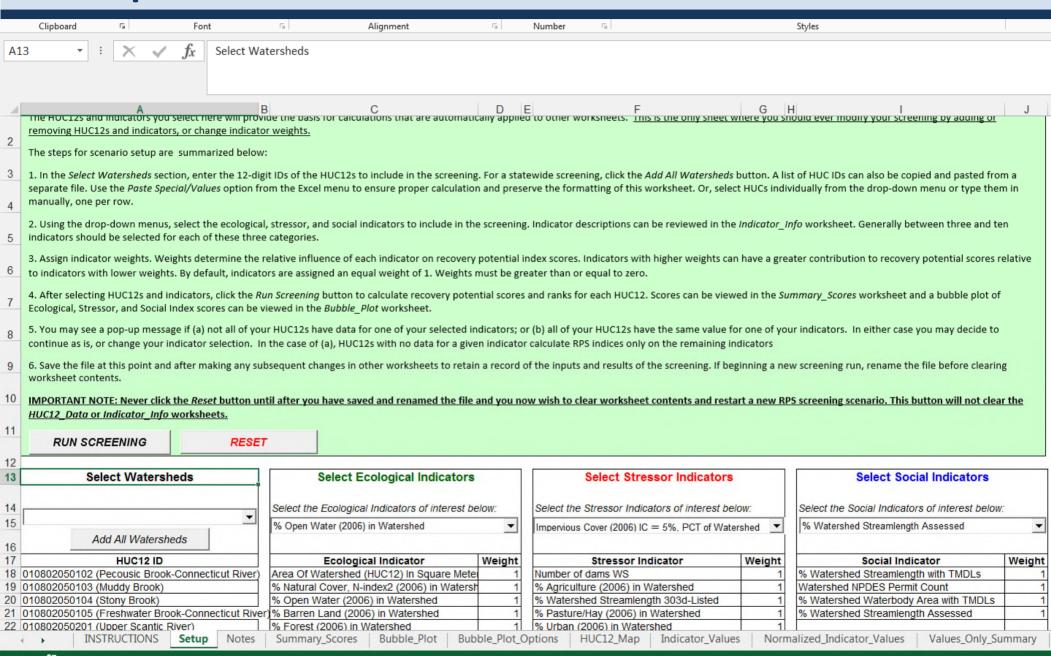
**Stressor Index** 

Ecological + Social + (100 – Stressor)

**Social Index** 



### Setup Screen View



### Overview of Prioritization Tool

### **Enhance Prioritization Tool**

**Acquire CT Specific Indicators** 

**Develop Indicators** 

### **Develop Scenarios for Tool**

Select Indicators & Weights

Compare impacts of adjusting indicators

### Extract results Further Analysis

Sort and Filter Watersheds

Rank and Select Common Watersheds

#### Publish DRAFT list of Watersheds for Comments

Include priorities outside Tool results

Engage Public with Complete DRAFT list



### **Example Indicators**

#### **Ecological Category**

# dams with fishways

CT

% of watershed as protected open space

Miles of free flowing stream



# of sampling stations with sensitive aquatic insects

% Natural Diversity Data
Base areas

CT

#### **Stressor Category**

Number of road crossings

% of agriculture land in the watershed

# of potential release remediation sites

СТ

% Impervious Cover >12% in a watershed

# of toxic discharge permits CT

Phosphorus yield

Nitrogen yield

#### **Social Category**

Stream miles of trout stocking

% watershed in a municipal stormwater permit area

# of known recreation areas

CT

# impaired segments with TMDLs

% drinking water source area

% Environmental Justice Areas

CT



# CT Water Quality Scenarios



#### **General Watershed Health**

- Restoration
- Protection



#### Stormwater

- Restoration
- Protection

SIX RPS TOOL SCENARIOS GENERATING SIX LISTS OF WATERSHEDS



#### **Nutrients**

- Restoration
- Protection

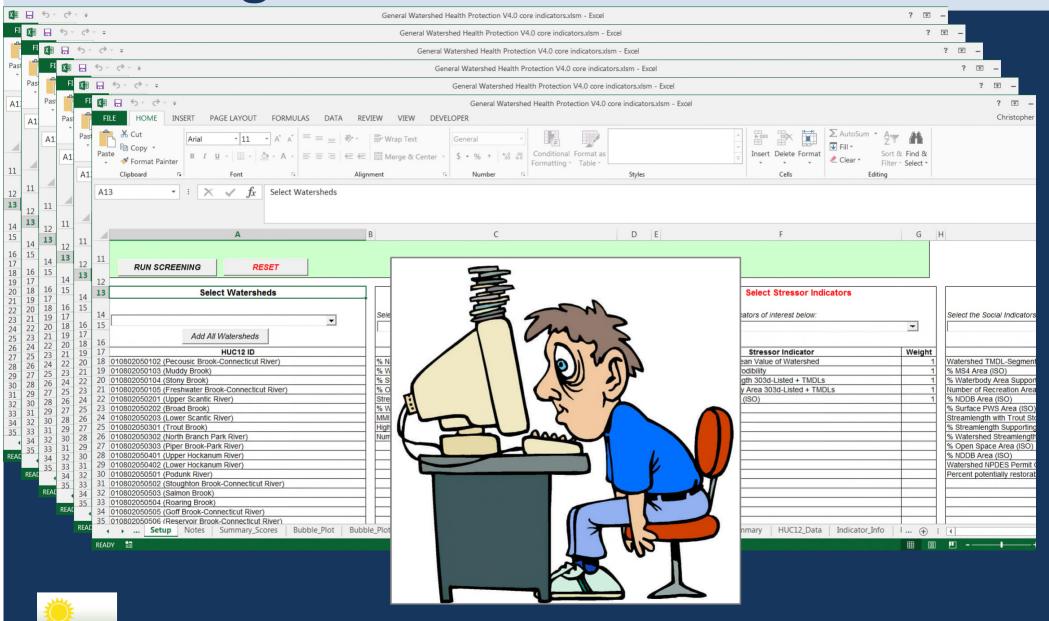


Bacteria Impairments Current and Future (not tool based)



Estuaries and Embayments (not tool based)

# Screening Runs



# Outnut Rankings of RPS Tool

	Output Marikings of Mr 5 1001												
A7 $\rightarrow$ : $\times$ $\checkmark$ $f_x$ Watershed ID													
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2	inis worksnee	contains each watersned's auto-calculated index vali	ues and rank orders	for the Ecological, Stre	essor, social, and Re	covery Potential I	ntegrated (KP	i) index score	·S.				
		ssor, and Social Index values have a maximum value	of 100. They are eacl	h calculated by summi	ing weight-adjusted	, normalized indic	ator values, di	ividing by the	total weig	ght, and m	ultiplying	g by 100	
3	Index + Social I	ndex + (100 - Stressor Index)] / 3.											
	Among the ind	ex values, a higher score implies higher recovery pote	ntial in the case of t	he ecological, social, a	ind RPI indices. A hi	igher stressor inde	x score implie	es lower recov	very poten	ntial. In the	e case of	rank or	
4		number implies higher recovery potential.		,,.		•			, , , , , , , ,				
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5	Raw indicator values specific to the current RPS screening run can be viewed in the Indicator_Values worksheet. Refer to the Normalized_Indicator_Values worksheet for weight-adjusted, normalized indicator values.											icator va	
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28 010802050603 Lower Mattabesset River

30 010802050702 Mill Creek-Connecticut River

29 010802050701 Higganum Creek

31 010802050801 Blackledge River

32 010802050802 Jeremy River

32 010802050803 Dine Brook

19.60

29.15

24.93

29.88

25.95

146

100

61

92

107

66

168

117

67

21.13

14.17

15.97

18.95

16.69

38.72

6.39

17.55

11.06

11.43

14.01

50

153

117

68

34.00

45.64

41.12

45.92

43.74

166 47

122

45

77

### Overview of Prioritization Tool

### **Enhance Prioritization Tool**

**Acquire CT Specific Indicators** 

**Develop Indicators** 

### **Develop Scenarios for Tool**

Select Indicators & Weights

Compare impacts of adjusting indicators

### **Extract results Further Analysis**

Sort and Filter Watersheds

Rank and Select Common Watersheds

### Publish DRAFT list of Watersheds for Comments

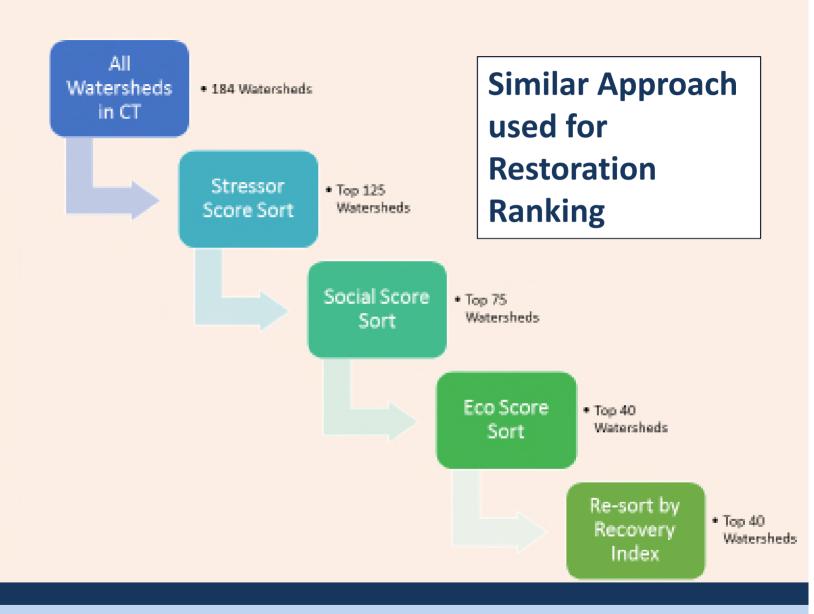
Include priorities outside Tool results

Engage Public with Complete DRAFT list



# Screening Results Analysis

Method of Using Protection Rankings from Recovery Potential Screening Tool





# Sorting RPS Tool Protection Results

Stormwater Top 20 Watersheds

Watershed A

Watershed B

Watershed C

Nutrient Top 20 Watersheds

Watershed A Watershed B

General Watershed Health Top 20 Watersheds

Watershed B Watershed C

Only Watershed B added to Priority List

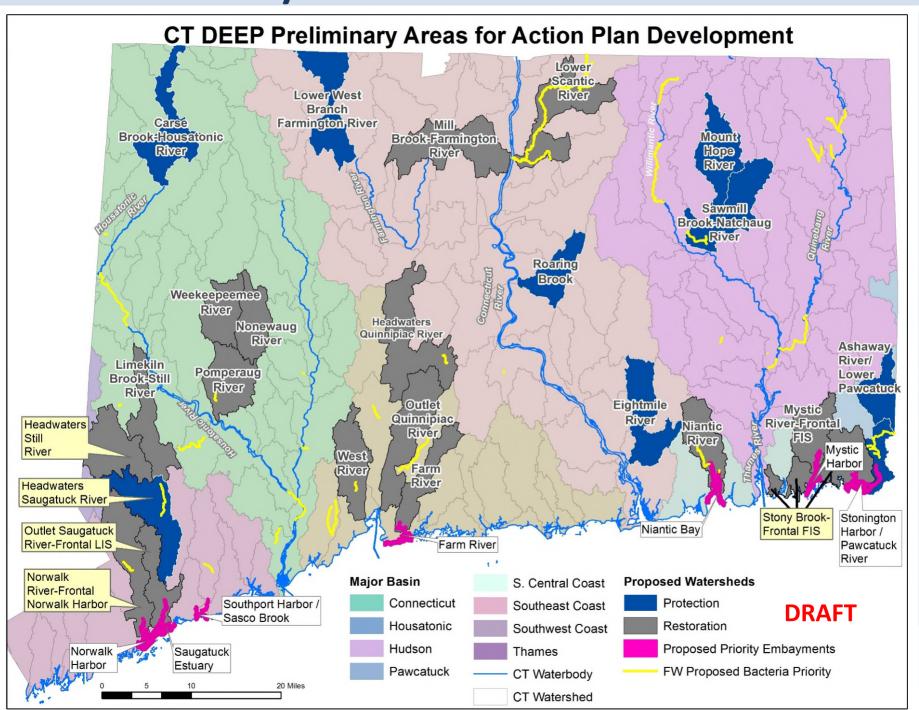


### Additional Evaluation

**Partners Refined Data Existing Monitoring Data Other Scenarios** 

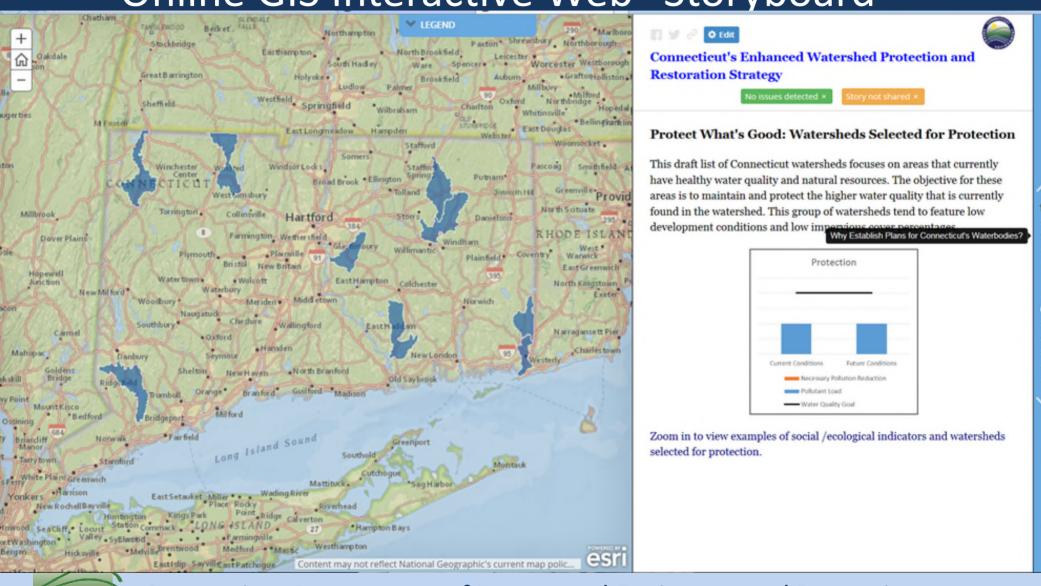


# Preliminary Focus Watersheds



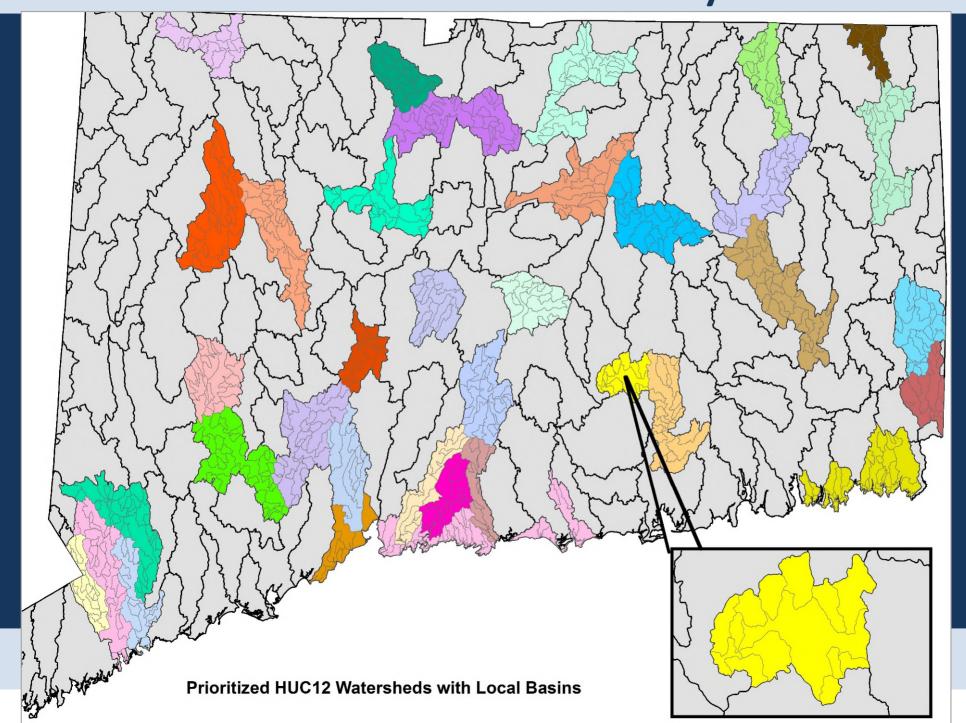
### **Enhanced Public Outreach**

Online GIS Interactive Web "Storyboard"





# **Enhanced Watershed Analysis**



### **Next Steps**

- Engage the public
- Respond to public comments on List
- Revise List for submittal to EPA





### Questions?

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